

FILED
REVISOR OF REGULATIONS
NOV 18 82 006129

Title 105 STATE ENERGY OFFICE

Chapter 5 - DEFINITIONS - PASSIVE SOLAR CREDITS FOR BUILDERS

001 Absorber shall mean a hard surface that:

001.01 Is exposed to the rays of the sun admitted through a solar collection area;

001.02 Converts solar radiation into heat; and

001.03 Transfers heat to a storage mass.

002 Builder shall mean a person who is in the trade or business of building residential units and has a proprietary interest in the residential unit built.

003 Habitable floor space shall mean the sum of the floor areas of the living spaces of the residential unit which are heated and/or cooled for human comfort. Basement areas shall be included when the basement temperature is to be maintained at no less than 60° F during the winter.

004 Heat distribution system method shall mean:

004.01 The release of radiant heat from a storage mass within the habitable areas of the structure; or

004.02 Convective heating from a storage mass, through airflow paths provided by openings or by ducts, in the storage mass, with or without the assistance of a fan or pump, having a horsepower rating of less than one horsepower, to habitable areas of a structure.

005 Heat regulation device shall mean:

005.01 Shading or venting mechanisms to control the amount of solar heat admitted through solar collection areas; and

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007.01 Have an average ceiling thermal transmittance of not more than .033 Btu/ft²/hour/degree F (R-30, minimum)

007.02 Have an average opaque wall thermal transmittance not greater than .071 Btu/ft²/hour/degree F (R-14, minimum) and south window thermal transmittance not greater than 0.56 Btu/ft²/hour/degree F (double glazing, minimum);

007.03 Have a window area not exceeding 15% of the total exterior wall area except that the solar collection area shall not be considered part of the area of the windows.

008 Solar collection area shall mean an expanse of transparent or translucent material that:

008.01 Is located on that side of the structure which faces true south, plus or minus thirty degrees; and

008.02 Is positioned in such a manner that the rays of the sun directly strike an absorber.

009 Storage mass shall mean a dense, heavy material that:

009.01 Receives and holds heat from an absorber and later releases the heat to the interior of the structure;

009.02 Is of sufficient volume, depth, and thermal energy capacity to store and deliver adequate amounts of solar heat for the structure in which it is incorporated;

009.03 Is located so that it is capable of distributing the stored heat directly to the habitable areas of the structure through a heat distribution method;

009.04 Has an area of directly irradiated material equal to or greater than the solar collection area; and

009.05 Has a heat capacity of at least 24 Btu/degree F/ft³.